

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

Form Approved  
OMB No. 44-R1387

# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME <b>MAGNAFLUX SURFACE CONDITIONERS, INC.</b>		EMERGENCY TELEPHONE NO. <b>415/489-8111</b>
ADDRESS (Number, Street, City, State, and ZIP Code) <b>301 Daggett Avenue Union City, California 94587</b>		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS <b>MIL-R-46116A, Type I (311-12)</b>
CHEMICAL FAMILY	FORMULA <b>3460</b>	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

  

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Chlorinated Hydrocarbons	Less than	70 500ppm
Cresols	Less than	13
Formic Acid	Less than	8

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	100	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	1.20
VAPOR PRESSURE (mm Hg.)		PERCENT, VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____ =1)	
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR <b>Amber to dark brown liquid; phenolic odor</b>			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None to boiling	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA				
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS				

**SECTION V - HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE

Excessive inhalation may cause dizziness or nausea.

EMERGENCY AND FIRST AID PROCEDURES

For excessive inhalation, remove to fresh air. In case of skin or eye contact, flush well with water for at least 15 minutes. See physician.

**SECTION VI - REACTIVITY DATA**

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

X

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS  
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

**SECTION VII - SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Allow solvents to evaporate. Absorb

residue with sawdust or other inert. Contact waste handler for disposal.

WASTE DISPOSAL METHOD

Determined by local pollution standards.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION (Specify type)

May need mask with organic vapors canister.

VENTILATION

LOCAL EXHAUST

SPECIAL

Desirable

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

Neoprene, poly

EYE PROTECTION

Goggles, face shield

OTHER PROTECTIVE EQUIPMENT

Rubber or poly apron

**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store away from heat and out of direct

sunlight. Open carefully to avoid spurting. Use with adequate ventilation.

OTHER PRECAUTIONS

<b>PROCESS ENGINEERING ORDER</b>  <b>DOUGLAS AIRCRAFT COMPANY</b> LONG BEACH, CALIFORNIA <b>MCDONNELL DOUGLAS CORPORATION</b> <small>CODE IDENT NO. 88877</small>				SHEET 1 OF 1		DPS 9.316		
				DATE	1	DOCUMENT REVISED		
				DATE	2	ADVANCE PEO		
				DATE 9-15-83	3	SERIAL PEO	83-010A	
				DATE	4	NEW/REVISED RELEASE		
				DATE	5	REISSUE TO REVISE		
TITLE				M & PE		PEO MADE BY		
STRIPPING OF ORGANIC COMPOUNDS				H. K. Ickes				
<b>HANDLING INSTRUCTIONS (HI):</b> 2. COMPLY AT SPECIFIED EFFECTIVITY. 3. COMPLY WHEN INVOKED BY DRAWING OR OTHER AUTHORITY. 4. COMPLY AS NEEDED. 5. NOTED				ROUTING CODE	RELEASE	PRODUCIBILITY	DRAFTING MANUAL TO BE REVISED	
				P		Not Required	YES	X
				SCHEDULE	PROGRAM ENGRG	GCN		
				DOG	Not Required	FD807T08		
				COE	CHANGE CONTROL	EWO		
					Not Required	N/A		
PARAGRAPH	MODEL	HI NO	EFFECTIVITY	MILITARY	WRO			
A11	Com1 &	*2	On or before 9-21-83	Not Required	N/A			
	Mil			ACTION COPIES				
				LIMITED DISTRIBUTION LIST				
				G. S. Filhouer, C1-411 (3-10)				
				F. B. Lennert, C1-824 (28-10)				
			*VOID UPON COMPLETION OF	J. S. Valerie, C1-151 (200-07)				
			PRODUCTION EVALUATION.					

This Serial PEO 83-010A is authority to change DPS 9.316, Revision "L" and APEO "P". SPEO 83-010A replaces SPEO 83-010 dated 4-7-83. This SPEO will remain in effect until completion of production evaluation. Subsequent revisions of DPS 9.316 will not replace this SPEO.

#### Summary of Changes & Reason:

- C. - Changed to add Magnaflux #3461 as a substitute for DPM 3398 for use in Tank #473, in Dept. C1-411 at C1.  
Reason: To conduct production pilot test.

#### DETAILED DPS CHANGE

#### CHANGE Section C.:

DPM NO.	MATERIAL NAME	SPECIFICATION OR PRODUCT SOURCE
*3398	Stripper; #3461	Magnaflux Surface Conditioners, Union City, CA

\*Use Magnaflux #3461 in lieu of material presently specified on DPM.

HKI:md